



National Aeronautics and Space Administration

# Space Launch System America's Flagship for Exploration




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# A Deeper Purpose, **A Bolder Mission**

The background of the slide is a dramatic space scene. In the lower-left foreground, the curved horizon of the Earth is visible, showing a blue sky and white clouds. The rest of the image is a dark, star-filled space. A bright, glowing light source, possibly the sun, is positioned in the upper-middle part of the frame, creating a lens flare effect. Numerous small, dark asteroids or debris are scattered throughout the space. On the right side, there is a small, bright orange and yellow explosion or fireball.

**“We reach for new heights  
and reveal the unknown for the  
benefit of humankind.”**





# NASA's Space Launch System

Launching Soon.  
**Building Today.**





Proven  
success.  
Greater  
power.

### **Stage Adapters:**

The Orion stage adapter will be the first new SLS hardware to fly.

### **Core Stage:**

Newly developed for SLS, the Core Stage towers more than 200 feet tall

### **RS-25 Engines:**

Space Shuttle engines for the first four flights are already in inventory



### **Orion:**

Carries astronauts into deep space

### **Interim Cryogenic Propulsion Stage:**

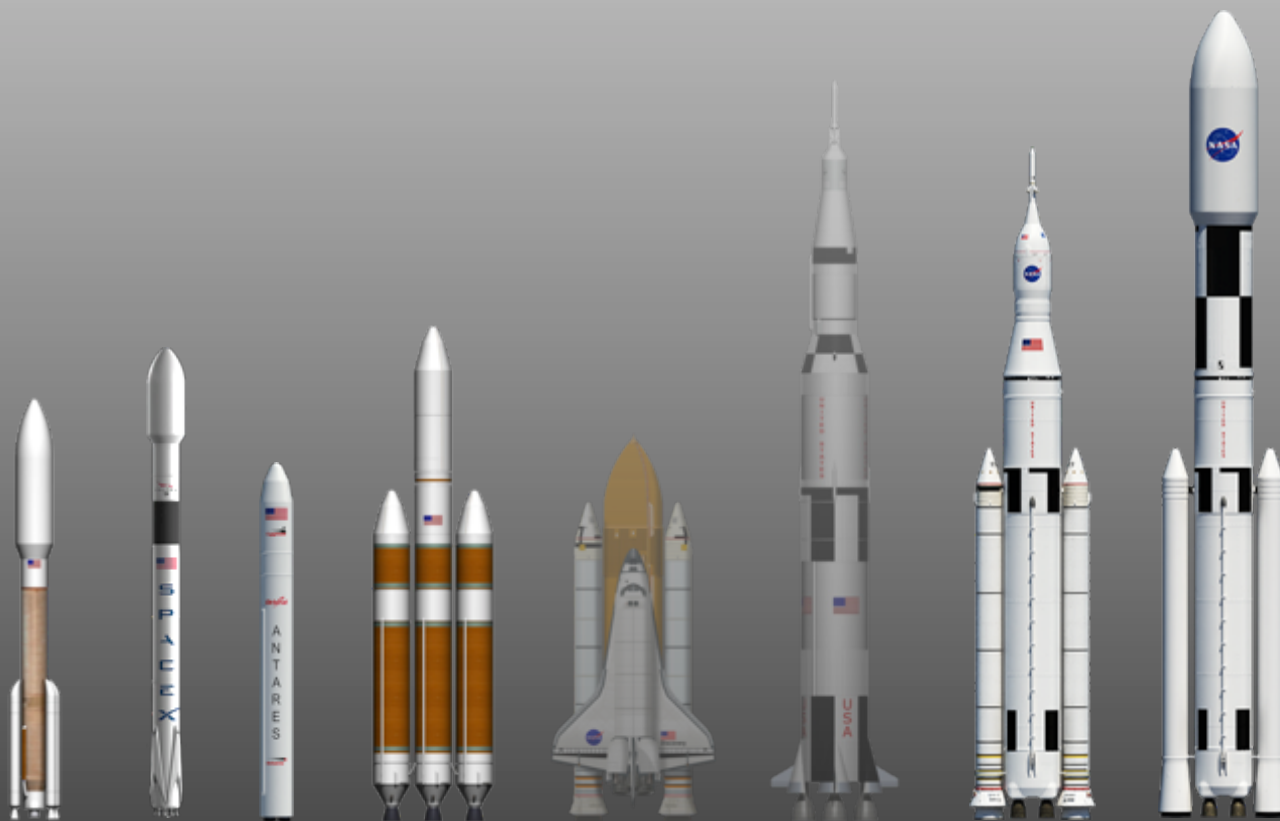
Based on the Delta IV Heavy upper stage; the power to leave Earth

### **Solid Rocket Boosters:**

Built on Space Shuttle hardware; more powerful for a new era of exploration



Bigger  
Rocket =  
Unrivaled  
Mass,  
Unrivaled  
Volume

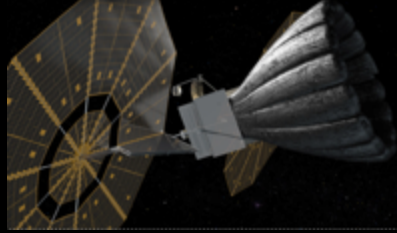


Enables missions  
no other rocket can perform.





Asteroid Rendezvous



Deep Space Telescope



GEO Servicing



Versatile  
enough  
for a  
universe of  
possibility

Space Habitat



Solar Probe



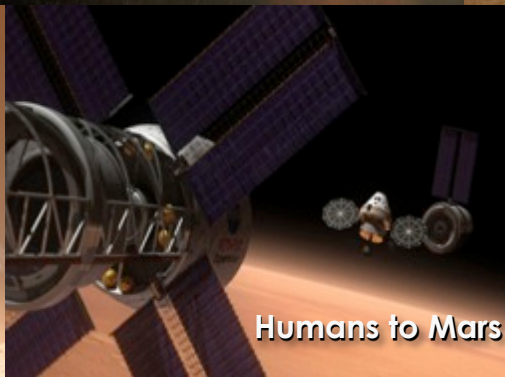
Mars Sample Return



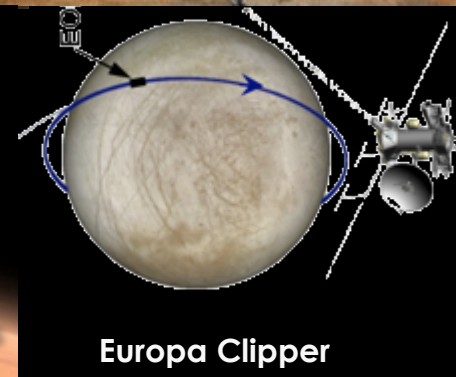
Mars Cargo Lander



Humans to Mars



Europa Clipper



Enceladus Return



Uranus Spacecraft



Interstellar







A  
national  
resource  
**the nation  
can  
afford**



Innovatively designed to be  
**affordable within a limited budget.**



**'Stack it.  
I'm  
ready.'**  
—Tony  
Antonelli



After an in-depth technical review,  
**the SLS Program is ready to build.**





Moving  
rapidly  
toward  
**the**  
launch  
pad



**NASA is building and testing SLS**  
around the country right now!





SLS's first launch will send Orion  
**farther than Apollo ever traveled.**

SLS flies  
for the  
first  
time in  
**2017!**







# SLS is the first step in the **journey to Mars**



Going to Mars will be difficult.  
**SLS provides the power that it takes.**



We explore space to promote  
**inspiration, security, diplomacy,  
knowledge, technology & prosperity.**

Going  
out there  
**to better  
life here**







The  
**biggest**  
challenges  
aren't  
always  
**technical**



The SLS team is making great progress.  
**Help us share our story.**





Man cannot discover  
**new oceans**  
unless he has the  
**courage to lose**  
**sight of the shore.**



Join us on  
**the journey**

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